

## PATENT ABSTRACTS OF JAPAN

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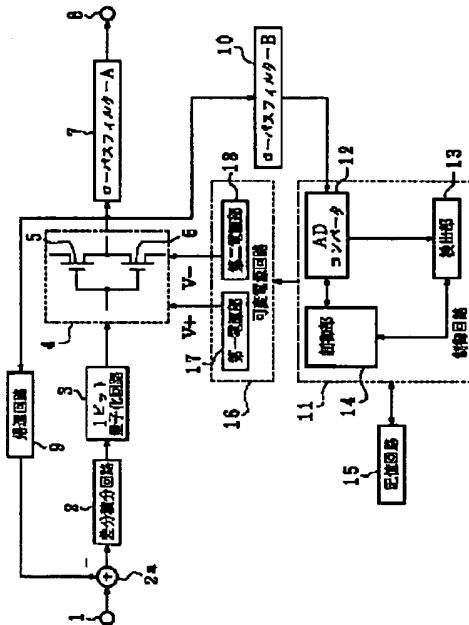
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**(54) PULSE WAVE AMPLIFIER**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a pulse wave amplifier that amplifies an audio signal with high efficiency while suppressing production of distortion.

**SOLUTION:** The pulse wave amplifier is provided with a 1-bit quantization circuit 3 that converts an audio signal into a 1st pulse wave signal, with a 1st amplifier 5 that amplifies a positive pulse in the 1st pulse wave signal, a 2nd amplifier 6 that amplifies a negative pulse of the 1st pulse wave signal, a 1st power supply section 17 that applies variably a 1st voltage to the 1st amplifier 5 to amplify the 1st pulse wave signal and to provide an output of a 2nd pulse wave signal, a 2nd power supply section 18 that applies variably a 2nd voltage to a 2nd amplifier 6, a detection section 13 that detects an offset of the 2nd pulse wave signal, and a control section 14 that controls the 1st voltage and the 2nd voltage corresponding to the offset.



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